

# Steve Warner

## Curriculum Vitae

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Department of Mathematics  
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### Education

*Rutgers University*  
Ph.D. in Mathematics, May, 2001  
Advisor: Simon Thomas

*The College of Staten Island*  
Bachelor of Science, *summa cum laude*, May, 1996

### Refereed Publications

L.B. Warner, R.Y.Schorr, S Warner, *Allowing students to take the lead in mathematical investigations*, Annual Perspectives in Mathematics Education (refereed journal), (2014), 35-44

J. D. Hamkins, R. Miller, D. Seabold, S. Warner, *Infinite time computable model theory*, New Computational Paradigms: Changing Conceptions of What is Computable (refereed journal), Cooper, S.B.; Löwe, Benedikt; Sorbi, Andrea (Eds.), 2007, Hardcover, ISBN: 0-387-36033-6.

*The cofinality of the saturated uncountable random graph*, Archive for Mathematical Logic (refereed journal), **43**, (2004), 665-679

*The cofinality of the random graph*, Journal of Symbolic Logic (refereed journal) (3), **66**, (2001), 1439-1446.

## **Other Publications**

*28 ACT math lessons to improve your score in one month - Advanced Course, 2017, ISBN: 1542964709*

*320 SAT math problems arranged by topic and difficulty level, 2nd Edition, 2016, ISBN: 1536869562 320*

*AP calculus BC problems arranged by topic and difficulty level, 2nd Edition, 2016, ISBN: 1534770038 320*

*AP calculus AB problems arranged by topic and difficulty level, 2nd Edition, 2016, ISBN: 1534631119*

*320 GRE math problems arranged by topic and difficulty level, 2016, ISBN: 1532789246*

*320 ACT math problems arranged by topic and difficulty level, 2nd Edition, 2016, ISBN: 0578077574*

*28 New SAT math lessons to improve your score in one month – Beginner Course, 2016, ISBN: 152334184X*

*28 New SAT math lessons to improve your score in one month - Intermediate Course, 2015, ISBN: 1522856714*

*28 New SAT math lessons to improve your score in one month - Advanced Course, 2015, ISBN: 1519617372*

*New SAT math problems arranged by topic and difficulty level, 2015, ISBN: 1511878185*

*320 AP calculus BC problems arranged by topic and difficulty level, 2015, ISBN: 1507762429*

*320 AP calculus AB problems arranged by topic and difficulty level, 2014, ISBN: 1503162915*

*320 SAT math subject test problems arranged by topic and difficulty level – level 1, 2014, ISBN: 1500433640*

*320 SAT math subject test problems arranged by topic and difficulty level – level 2, 2014, ISBN: 1499396678*

*ACT prep red book, 2013, ISBN: 1494253879*

*SAT prep official study guide math companion, 2013, ISBN: 1490435301*

*28 SAT math lessons to improve your score in one month – Beginner Course, 2013, ISBN: 1482305763*

*28 SAT math lessons to improve your score in one month - Advanced Course, 2012, ISBN: 1481019333*

*28 SAT math lessons to improve your score in one month - Intermediate Course, 2012, ISBN: 1479284122*

*320 SAT math problems arranged by topic and difficulty level, 2012, ISBN: 1470002310*

*The 32 most effective SAT math strategies, second edition, 2012, ISBN: 1468131915*

*The 32 most effective SAT math strategies, 2011, ISBN: 1460925769*

## **Work in Progress**

*A model of set theory with universal comprehension, joint work with Stefan Waner*

## **Research Interests**

Independence proofs in set theory; descriptive set theory; model theory; infinite group theory; recursion theory.

## Refereed Papers

The London Mathematical Society (2003)

## Professional Experience

Associate Professor of Mathematics, Hofstra University, Fall 2007 – present  
Assistant Professor of Mathematics, Hofstra University, Fall 2002 – Spring 2007  
Assistant Professor of Mathematics, Penn State Berks, Fall 2001 – Spring 2002  
Instructor, Rutgers University, Summer 1999  
Adjunct Lecturer, The College of Staten Island, Fall 1999 – Spring 2000  
Teaching Assistant, Rutgers University, Fall 1997 – Spring 2000

Curriculum Development for SAT Prep Course, Essex Tutoring, Fall 2013 – Spring 2014  
Online SAT Math Prep Tutor, Essex Tutoring, Fall 2013 – Spring 2014  
ACT Math and Science Prep Tutor, Summer 2005 – present  
SAT Math Prep Tutor, Fall 2000 – present  
Private Math Tutor, Fall 1990 – present

## Courses Taught:

### *Hofstra University*

Advanced Calculus II (Math 172, Spring 2014), Explorations In Mathematics (Math 30B, Spring 2014), Abstract Algebra (Math 145, Spring 2013), Introduction to Higher Mathematics (Math 114, Fall 2012, Spring 2013, Spring 2016, Spring 2017), Real Numbers and College Algebra (Math 6A, Summer 2012, Spring 2013), Calculus II (Math 72, Summer 2012, Summer 2013), Logic and Probability (Math 45, Spring 2012), Advanced Calculus I (Math 171, Fall 2011, Fall 2013, Fall 2015), Graduate Linear Algebra (Math 211, Fall 2011), Problem Solving (Math 107, Fall 2011, Fall 2013), Graduate Complex Analysis (Math 173/223, Spring 2011), Mathematical Excursions Honors (Math 30AH Fall 2010, Fall 2011), Calculus III (Math 73, Spring 2009, Spring 2010, Spring 2014, Fall 2015, Spring 2016, Spring 2017) Graduate Set Theory (Math 198L/202 Fall 2008), Graduate Abstract Algebra (Math 212A, Spring 2008, Fall 2010), Precalculus (Math 50, Spring 2007, Spring 2011, Spring 2012, Fall 2012, Spring 2013, Fall 2013, Summer 2014, Spring 2016), Linear Math and Matrices (Math 40, Fall 2006, Fall 2007, Spring 2007, Spring 2008, Spring 2009, Fall 2009, Spring 2010, Fall 2010), Mathematical Excursions (Math 30A, Summer 2006, Fall 2006, Spring 2009, Fall 2010, Fall 2011, Fall 2012), Calculus I (Math 61, Summer 2006, Fall 2009, Summer 2010, Spring 2011), Precalculus (Math 11, Spring 2005, Spring 2006, Fall 2008), Calculus I (Math 10, Summer 2005), Calculus II (Math 20, Spring 2005), Advanced Engineering Math II (Math 144, Spring 2004, Spring 2007), Calculus III (Math 29, Fall 2002), Calculus I (Math 10E, Fall 2002, Spring 2004), Linear Algebra (Math 135A, Spring 2003, Fall 2004, Fall 2006, Spring 2008), Linear Math and Matrices (Math 9, Spring 2003, Fall 2005), Graduate Mathematical Logic (Math 202A, Summer 2003, Fall 2005), Advanced Engineering Math I (Math 143, Fall 2003, Fall 2004, Fall 2007, Spring 2010, Summer 2010, Spring 2014), Mathematical Excursions (Math 12, Fall 2003, Spring 2004, Fall 2004, Spring 2006, Fall 2007, Fall 2008, Spring 2008), Graduate Ordinary Differential Equations (Math 261A, Fall 2003)

*Penn State Berks*

Calculus II (Spring 2002), Calculus I (Fall 2001)

*The College of Staten Island*

Precalculus (Spring 2000), Algebra and Trigonometry (Fall 1999)

*Rutgers University*

Calculus I (Summer 1999), Calculus Recitations and Workshops (Fall 1997-Spring 2000)

## **Talks**

*Infinite time computable model theory*, Bonn International Workshop on Ordinal Computability (2007)

*The supremum of the clockable and writable ordinals is the same*, Set theory seminar at the CUNY graduate center (2007)

*Infinite time computable model theory*, Hofstra university mathematics seminar (2006)

*Infinite time computable model theory*, CUNY logic workshop (2006)

*Inconsistent sentential logic*, Science Research Symposium at Hofstra University (2005)

*A logic of inconsistency – sentential calculus*, CUNY logic workshop (2004)

*The cofinality spectrum of the random graph*, CUNY logic workshop (2003)

*The cofinality of the random graph*, Hofstra university mathematics seminar (2002)

*The cofinality of the saturated uncountable random graph*, CUNY logic workshop (2001)

*The cofinality of arithmetically saturated models of peano arithmetic*, CUNY logic workshop (2000)

*The cofinality of the random graph*, Special session in set theory – Mid Atlantic Mathematical Logic Conference, NYC (1999)

*Derivation towers of lie algebras*, Rutgers graduate seminar (1999)

*The cofinality of the random graph*, CUNY logic workshop (1999)

*The cofinality of the random graph*, Rutgers logic seminar (1999)

*Model Theory*, Rutgers graduate seminar (1998)

*The cofinality of the rational world*, Rutgers logic seminar (1998)

*Recursion Theory*, Rutgers graduate seminar (1998)

## **Conferences Organized**

MAMLS Conference at Hofstra University on March 16, 2004 organized with Daniel Seabold

## **Professional Activities**

Participant in a five year NSF grant, “The MSTP Project”, to study and improve mathematics and science curriculum in poorly performing junior high schools (Fall 2003 to Spring 2008)

## **Service at Hofstra**

DPC Committee, Chair (Hofstra University, Fall 2016 – Spring 2017) Committee to Analyze Calculus Sequence (Hofstra University, Spring 2014-Fall 2015)  
Judge at Greater Metropolitan New York Math Fair (Brooklyn Technical High School, Spring 2014)  
Committee to Analyze IB Exams (Hofstra University, Fall 2012)  
Department Chair (Hofstra University, June 2012)  
DPC Committee (Hofstra University, Fall 2011 – Spring 2012, Fall 2013 – Spring 2016)  
Committee to Revise Precalculus Syllabus, Chair (Hofstra University, Fall 2011)  
Stessin Prize Committee for the Natural Sciences/Mathematics/Computer Science (Hofstra University, Spring 2011)  
Committee to Analyze AP Calculus Exams (Hofstra University, Fall 2010)  
Behailu Mammo's Tenure Committee (Hofstra University, Fall 2010)  
Committee to Revise the Math Major, Chair (Hofstra University, Fall 2009)  
Worked with high school student as mentor (Fall 2007 – Spring 2008).  
DPC Committee, Chair (Hofstra University, Fall 2007 – Spring 2008)  
Executive Committee (Hofstra University, Fall 2006 – Spring 2007)  
Curriculum Proposals Committee, Chair (Hofstra University, Fall 2006 – Spring 2007)  
Curriculum Proposals Committee (Hofstra University, Fall 2004 – Spring 2006)  
Committee on Renumbering Math Courses, Chair (Hofstra University, Fall 2004)  
Prerequisite Committee (Hofstra University, Spring 2003)  
Five-Year Plan Committee (Hofstra University, Fall 2002)  
*Levels of Infinity*, a talk given to the AP Calculus class at Hillcrest High School to represent Hofstra University (2003)

## **Honors and Awards**

### *Rutgers University*

Rutgers University Dissertation Fellowship (Fall 2000)  
TA Teaching Excellence Award (Fall 1999)

### *The College of Staten Island*

Deans List (1992-1996)  
Presidential Scholarship Award (1992-1996)  
Mathematics Scholarship Award (1993, 1995)  
The College of Staten Island Lion's Club of Central Staten Island Scholarship Award (1993)  
Faculty Scholarship Award (1995)  
Phillipine/American Civic Cultural Community of Staten Island Scholarship Award (1995-1996)  
Phi Beta Kappa Associates Award (1996)  
Dr. WH Leaky Award (1996)